

Appl. No. 10/812,670
 Reply to Office Action of July 13, 2005

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1 – 17 (canceled)

Claim 18 (currently amended): A system for monitoring body temperatures in a plurality of herd animals, said system comprising:

a plurality of radio frequency identification transponders, each said transponder having a temperature sensor for sensing animal temperature, each herd animal provided with one of said radio frequency identification transponders, each transponder positioned such that said temperature sensor is in a viable sensing location for sensing the animal's temperature;

a reader/interrogator for:

transmitting radio frequency signals to said transponders;

receiving radio frequency signals from said transponders, said received radio frequency signals containing animal temperature data from said temperature sensors; and

demodulating said received radio frequency signals into animal temperature data;

a memory for storing said animal temperature data; and

a microcontroller in communication with said reader/interrogator and said memory, wherein said microcontroller is for:

processing said animal temperature data and determining a baseline temperature for each animal by averaging said temperature data for each animal over time; and

The system of claim 17, wherein said microcontroller is further for providing an alarm indication when temperature data from any herd animal deviates a set percentage from said baseline temperature for said animal.

Appl. No. 10/812,670
Reply to Office Action of July 13, 2005

Claim 19 (previously presented): The system of claim 18, wherein said microcontroller is further for adjusting said temperature data by employing a correction factor to adjust for the sensor location in each animal.